

AMENDMENTS TO THE CLAIMS

1 1. (Currently amended) A document-generation process performed using a
2 computer system, the process comprising:
3 parsing a raw document to create an internal representation of the document;
4 reading a first-level transform from a transform database;
5 applying the first-level transform to the internal representation so as to create a
6 first-level document;
7 writing the first-level document to ~~each~~ memory;
8 receiving a first request for a second-level document that depends from the first-
9 level document;
10 in response to the first request, reading a second-level transform from the
11 transform database;
12 applying the second-level transform to the first-level document so as to create a
13 second-level document; and
14 writing the second-level document to ~~each~~ memory.

1 2. (Currently amended) A document-generation process as defined in Claim
2 1, further comprising:
3 revising the raw document;
4 applying the first-level transform to the revised raw document so as to create a
5 revised first-level document;
6 writing the revised first-level document to ~~each~~ memory; and
7 indicating that a then-existing second-level document is invalid.

1 3. (Original) A document-generation process as defined in Claim 2,
2 further comprising:
3 receiving a second request for the then-existing second-level document;
4 determining that the then-existing second-level document has been indicated
5 invalid;

6 applying the second-level transform to the revised first-level document so as to
7 create a revised second-level document; and
8 writing the revised second-level document to ~~each~~ memory.

1 4. (Currently amended) A document-generation process as defined in Claim
2 1, further comprising:
3 receiving a request for a revised first-level transform;
4 revising the then-existing first-level transform;
5 applying the revised first-level transform to the raw document so as to create a
6 revised first-level document;
7 writing the revised first-level document to ~~each~~ memory; and
8 indicating that the then-existing second-level document is invalid.

1 5. (Currently amended) A document-generation process as defined in Claim
2 4, further comprising:
3 receiving a second request for the then-existing second-level document;
4 determining that the then-existing second-level document has been indicated
5 invalid;
6 applying the second-level transform to the revised first-level document so as to
7 create a revised second-level document; and
8 writing the revised second-level document to ~~each~~ memory.

1 6. (Original) A document-generation process as defined in Claim 1,
2 wherein a respective GID is assigned to each of the first-level document and the second-
3 level document.

1 7. (Original) A document-generation process as defined in Claim 1,
2 wherein the first-level document and the second-level document are timestamped and
3 wherein a document is deleted when a timestamp indicates that the document is stale.

1 8. (Currently amended) A method of generating customized versions of a
2 document using a computer system, the method comprising:

3 storing the document in raw form;
4 parsing the document to create an internal representation of the document; and
5 decomposing the document, wherein decomposing the document comprises
6 applying a first-level transform to the internal representation of the
7 document so as to create a first-level document and applying a second-
8 level transform to the first-level document so as to create a second-level
9 document.

1 9. (Currently amended) A method as defined in Claim 8, wherein
2 ~~decomposition of the document~~ applying a first-level transform and applying a second-
3 level transform comprises applying sequential transforms to the document.

1 10. (Canceled).

1 11. (Canceled.)

1 12. (Currently amended) A method as defined in Claim ~~[[10]]~~ 8, wherein
2 ~~decomposition of~~ decomposing the document comprises applying a third-level transform
3 to the second level document so as to create a third-level document.

1 13. (Original) A method as defined in Claim 8, wherein the document is
2 stored in raw XML form.

1 14. (Currently amended) A method as defined in Claim 13, wherein
2 ~~decomposition of the document~~ applying a first-level transform and applying a second-
3 level transform comprises applying sequential transforms to the document.

1 15. (Currently amended) A method as defined in Claim 14, wherein
2 ~~decomposition of~~ applying a first-level transform of the document stored in raw XML
3 form comprises applying a subscription-level transform to the internal representation of
4 the document so as to create a subscription-level document.

1 16. (Currently amended) A method as defined in Claim [[1]] 15, wherein the
2 subscription-level transform enables content filtering of the internal representation in
3 accordance with a user's request.

1 17. (Currently amended) A method as defined in Claim 16, wherein
2 ~~decomposition of the document~~ applying a second-level transform comprises applying an
3 organization-level transform to the subscription-level document so as to create an
4 organization-level document.

1 18. (Original) A method as defined in Claim 17, wherein the
2 organization-level transform enables subscription-specific content filtering of a
3 subscription-level document.

1 19. (Currently amended) A method as defined in Claim 18, wherein
2 ~~decomposition of~~ decomposing the document comprises applying a presentation-level
3 transform to the organization-level document so as to create a presentation-level
4 document.

1 20. (Original) A method as defined in Claim 19, wherein the presentation-
2 level transform generates an organization-specific document for end user presentation.

1 21. (Original) A method as defined in Claim 20, wherein the presentation-
2 level transform generates an HTML document or a text file for end user presentation.

3 22. (Original) A method as defined in Claim 21, wherein the subscription-
4 level transform is mandatory and the organization-level and presentation-level transforms
5 are optional.

1 23. (Original) A method as defined in Claim 8, wherein a transform is
2 applied to a document only as a result of an initial demand for a transformed document.

1 24. (Original) A method as defined in Claim 23, wherein the demand for a
2 transformed document is a client request.

1 25. (Original) A method as defined in Claim 24, wherein the demand for a
2 transformed document is a document publication process.

1 26. (Original) A method as defined in Claim 23, wherein transformed
2 documents are written to a cache.

1 27. (Original) A method as defined in Claim 26, wherein demands for a
2 transformed document, subsequent to the initial demand, are referred to the cache.

1 28. (Currently amended) A computer readable medium having data stored
2 therein to cause a data processing system to generate a data document generated
3 according to a process comprising:
4 storing a raw form of the document;
5 parsing the document to create an internal representation of the document; and
6 decomposing the document into a form requested by a recipient of the document,
7 wherein decomposing the document comprises applying a first-level
8 transform to the internal representation of the document so as to create a
9 first-level document and applying a second-level transform to the first-
10 level document so as to create a second-level document.

1 29. (Currently amended) A ~~data document~~ computer readable medium as
2 defined in Claim 28, wherein ~~decomposing the document comprises applying a first-level~~
3 ~~transform to the internal representation of the document so as to create a first-level~~
4 ~~document and applying a second-level transform to the first level document.~~ applying a
5 first-level transform and applying a second-level transform comprises applying sequential
6 transforms to the document.

1 30. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 28, wherein the document is stored in XML form.

1 31. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 30, wherein the document stored in XML form is parsed by an XML
3 parser to create the internal representation.

1 32. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 31, wherein the internal representation level of the document is
3 transformed to a subscription-level document by applying a subscription-level transform
4 to the internal representation.

1 33. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 32, wherein application of the subscription level transform to the
3 internal representation so as to create a subscription-level document is required.

1 34. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 32, wherein the subscription-level document is transformed into an
3 organization-level document by applying an organization-level transform to the
4 subscription-level document.

1 35. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 34, wherein application of the organization-level transform to the
3 subscription-level document so as to create an organization-level document is optional.

1 36. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 34, wherein the internal representation of the document is decomposed
3 to a transform-level document only in response to a request for a transform-level
4 document.

1 37. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 36, wherein transformed documents are written to a cache.

1 38. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 37, wherein an initial request for a transformed document causes
3 decomposition of the internal representation into the form requested and wherein
4 subsequent requests for a transformed document causes the transformed document to be
5 retrieved from ~~each~~ memory.

1 39. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 29, wherein the data document is generated according to a process
3 comprising:
4 tracking the dependencies of a transformed document; and
5 regenerating the transformed document when any dependency related to the
6 document changes.

1 40. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 39, wherein the document is generated according to a process
3 comprising:
4 designating a cached version of the document invalid when any dependency
5 related to the document changes, and
6 regenerating the transformed document in response to a request form the
7 document that is made after the dependency change.

1 41. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 40, wherein the document is stored in XML form.

1 42. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 39, wherein the document stored in XML form is parsed by an XML
3 parser to create the internal representation.

1 43. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 42, wherein the internal representation level of the document is
3 transformed to a subscription-level document by applying a subscription-level transform
4 to the internal representation.

1 44. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 43, wherein application of the subscription level transformed to the
3 internal representation so as to create a subscription-level document is required.

1 45. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 43, wherein the subscription-level document is transformed into an
3 organization-level document by applying an organization-level transform to the
4 subscription-level document.

1 46. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 45, wherein application of the organization-level transform to the
3 subscription-level document so as to create an organization-level document is optional.

1 47. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 45, wherein the internal representation of the document is decomposed
3 to a transform-level document only in response to a request for a transform-level
4 document.

1 48. (Currently amended) A ~~data-document~~ computer readable medium as
2 defined in Claim 47, wherein transformed documents are written to a cache.

1 49. (Withdrawn) A system for generating customized documents, the system
2 comprising:
3 a primary database that includes a document table and a transform table;
4 a raw-data database accessible by the primary database;
5 a transform database accessible by the primary database; and

6 a cache coupled to the primary database and storing customized versions of
7 documents.

1 50. (Withdrawn) A system for generating customized documents as defined
2 in Claim 49, wherein the raw-data database stores data documents in XML form.

1 51. (Withdrawn) A system for generating customized documents as defined
2 in Claim 49, wherein the transform database stores XSL stylesheets.

1 52. (Withdrawn) A system for generating documents as defined in Claim 49,
2 wherein the transform database stores Java classes.

1 53. (Currently amended) A method of generating customized versions of a
2 document using a computer system, the method comprising:
3 storing the document in a primitive form;
4 transforming the document from primitive form into an internal representation of
5 the document;
6 transforming the internal representation into at least one subscription-level
7 document, into a DEFAULT organization-level document and into at least
8 one user-specific organization-level document;
9 transforming the DEFAULT organization-level document into at least one
10 presentation-level document; and
11 transforming the user-specific organization-level document into at least one
12 presentation-level document.

1 54. (Original) A method of generating customized versions of documents
2 as defined in Claim 53, wherein the user-specific organization-level document is
3 transformed into at least two presentation-level documents.

1 55. (Original) A method of generating customized versions of documents
2 as defined in Claim 54, wherein the user-specific organization-level document is

3 transformed into an HTML presentation-level document and into a FLAT presentation-
4 level transform.

1 56. (Original) A method of generating customized versions of a document
2 as defined in Claim 53, wherein:

- 3 (i) the internal representation is transformed into a first subscription-level
4 document and into a second subscription-level document;
5 (ii) the first subscription level document is transformed into a subscription-level
6 specific DEFAULT organization-level document and into at least one
7 user-specific organization-level document; and
8 (iii) the second organization-level document is transformed into a subscription-
9 level-specific DEFAULT organization-level document.

1 57. (Original) A method of generating customized versions of a document
2 as defined in Claim 56, wherein the document is stored in XML form.

1 58. (Original) A system for the generation of customized data documents,
2 the system comprising:
3 first database means for storing raw data documents;
4 first tabular means for storing document records;
5 an interface coupling the first database means to the first tabular means;
6 second database means for storing a compilation of transforms that enable an
7 internal representation of a document to be transformed into a first-level
8 document and that enable the first-level document to be transformed into a
9 second-level document;
10 second tabular means for storing transform records; and
11 an interface coupling the second database means to the second tabular means.

1 59. (Original) A system as defined in Claim 58, further comprising:
2 a cache coupled to the first tabular means and to the second tabular means.

1 60. (Original) A system as defined in Claim 58, wherein the second
2 database means stores a compilation of transforms that enable:
3 transforming an internal representation into at least one subscription-level
4 document, into a DEFAULT organization-level document and into at least
5 one user-specific organization-level document;
6 transforming the DEFAULT organization-level document into at least one
7 presentation-level document; and
8 transforming the user-specific organization-level document into at least one
9 presentation-level document.

1 61. (Original) A system as defined in Claim 60, wherein the second
2 database means stores a compilation of transforms that enable:
3 (i) the internal representation to be transformed into a first subscription-level
4 document and into a second subscription-level document;
5 (ii) the first subscription level document to be transformed into a subscription-
6 level specific DEFAULT organization-level document and into at least
7 one user-specific organization-level document; and
8 (iii) the second organization-level document to be transformed into a subscription-
9 level-specific DEFAULT organization-level document.

1 62. (Original) A system as defined in Claim 61, further comprising:
2 a cache coupled to the first tabular means and to the second tabular means.